DOCKET NO.: ABDT-0575 / B030270 **PATENT**

Application No.: 10/699,041 **Office Action Dated:** 3/16/2005

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-11. (Withdrawn)

12. (Currently Amended) A method for generating workflow optimization processes and techniques for use on manufacturing resources of a manufacturing environment comprising the steps of:

receiving <u>a</u> request for the manufacture of a product or product component; and processing the request by a workflow optimization engine, the workflow optimization engine having at least one instruction set to process data according to predefined manufacturing rules;

generating, by the workflow optimization engine, optimization instructions for use with the manufacturing resources; and

modifying, by the workflow optimization engine, the optimization instructions based upon identifying inefficiencies of the manufacturing resources.

- 13. (Original) The method as recited in claim 12, wherein the further comprising communicating the processed data to at least one cooperating manufacturing resource.
- 14. (Original) The method as recited in claim 13, wherein the communicating step comprises establishing communications over a communications network with the manufacturing resource.
- 15. (Original) The method as recited in claim 14, further comprising retrieving from a cooperating data store data manufacturing rules and heuristics for the manufacturing environment.
- 16. (Original) The method as recited in claim 15, further comprising receiving data from cooperating additional manufacturing optimization resources comprising any of manual data,

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manufacturing control application, and planning systems for processing and to generate the manufacturing instructions.

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17. (Original) A computer readable medium having computer readable instructions to instruct a computer to perform the method as recited in claim 12.

18. (Currently Amended) A method to generate workflow optimization instructions for manufacturing resources for a manufacturing flow, the method comprising:

providing a workflow optimization engine, the workflow optimization engine capable of receiving and processing data to generate workflow optimization instructions; and

altering, by the workflow optimization engine, the workflow optimization instructions sent to one or more manufacturing devices based upon inefficiencies of machines in the manufacturing flow.

- 19. (Original) The method as recited in claim 18 further comprising, providing a data store, the data store cooperating with the workflow optimization engine providing manufacturing rules and manufacturing environment conditions.
- 20. (Original) The method as recited inc claim 18 further comprising, providing a communications network, the communication network cooperating with the workflow optimization engine to communicate workflow optimization instructions to cooperating manufacturing resources.

21-22. (Withdrawn)